

MUTOH

Universal Mild Solvent (UMS) Inks



Innovative Inks for Durable Outdoor Sign & Display Graphics

Quality

- Innovative ink chemistry : nano-size highly durable colour pigments, new blend of milder and non-aggressive solvents & multi-resin mix
- Wide colour gamut, covering 83 % of the Pantone C[®] colour chart
- Virtually odourless in the print environment
- No need for forced ventilation

Reliability

- Outdoor UV resistance of up to 3 years without lamination
- Excellent application scuff : minimal superficial damage during application
- Improved resistance against alcohol-based cleaners
- Fixed and dried at regular heating temperatures
- Hardly any printer maintenance required

Flexibility

- Suited for high quality and high speed printing
- Wide media compatibility with uncoated & coated substrates
- Compatible with Mutoh's entire sign & display printer range



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The Universal Mild Solvent (UMS) inks are Mutoh's 4th generation of mild solvent inks. Specifically formulated for Mutoh's roll-to-roll sign & display wide-format printer portfolio and intended for long-term outdoor and indoor applications, the environmentally responsible UMS inks combine key benefits of resin-based, eco solvent and mild solvent ink chemistries.

Mutoh UMS inks are compatible with installed-base Mutoh mild solvent printers as well as with the latest ValueJet series sign & display printers. Available in liter bottles for use in combination with Mutoh's optional bulk ink system and in 440 ml cassettes, the inks are suited for a wide variety of applications : posters, banners, backlit signage, fleet signage, wall coverings, fine art, POS displays, billboards, building announcements, etc...

Innovative Ink Formulation

UMS inks consist of highly durable colour pigments grinded to nano-size level (< 100 nm), a new blend of milder and non-aggressive solvents and a new mix of resins. The resin mix will enable optimum adhesion of the pigments to the substrate and create a uniform and smooth ink layer. Each individual colour pigment is moreover encapsulated (coated) by the resin mix, to optimally address the typical requirements of outdoor sign & display prints (gloss preservation, scuff, abrasion & chemical resistance) and to safeguard long-term outdoor durability of the colour pigments.

Quality and Reliability

The UMS inks offer an outdoor UV resistance of up to three years without lamination ⁽¹⁾. They are virtually odour-free and do not require any forced ventilation. They offer an unrivalled colour gamut and a unique media gloss preservation. The inks cover 83 % of the Pantone C® colour chart. Suited for both high quality and high speed printing, they also hardly require any printer maintenance and are fixed and dried at regular heating temperatures ⁽²⁾.

(1) For heavy duty applications where mechanical stress is involved (floor and vehicle graphics), lamination is required. Stabilisation is required prior to lamination.

(2) Some media will show a slower drying profile. To accelerate drying, infra red heating is recommended.

Compatibility

- | | |
|-----------------|--------------------------------|
| • ValueJet 1324 | • ValueJet 1604 |
| • ValueJet 1624 | • ValueJet 1614 |
| • ValueJet 1638 | • Rockhopper II |
| • ValueJet 2638 | • Rockhopper 3 (Extreme) |
| • ValueJet 1204 | • Spitfire 65/90/100 (Extreme) |
| • ValueJet 1304 | • Blizzard 65/90 |

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